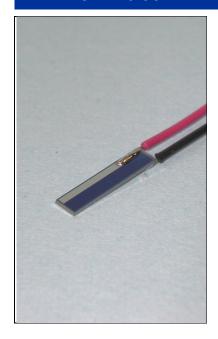
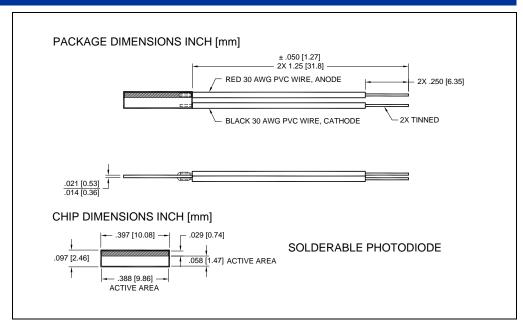


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Precision – Control – Results





DESCRIPTION

The **PDB-C607-2** is a silicon red enhanced solderable photodiode designed for low capacitance and high speed for photoconductive applications

FEATURES

- Red Enhanced
- Photoconductive
- High Quantum Efficiency

RELIABILITY

Contact Luna for recommendations on specific test conditions and procedures.

APPLICATIONS

- Optical Encoders
- Position Sensor
- Industrial Controls
- Instrumentation



ABSOLUTE MAXIMUM RATINGS

SYMBOL	MIN		MAX	UNITS	
Reverse Voltage	-	-	75	V	T _a = 23°C UNLESS OTHERWISE NOTED
Storage Temperature	-40	-	+125	°C	-
Operating Temperature	-40	to	+100	°C	-
Soldering Temperature*	-	-	+224	°C	-

* 1/16 inch from case for 3 seconds max.



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OPTO-ELECTRICAL PARAMETERS

T_a = 23°C UNLESS NOTED OTHERWISE

PARAMETER	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
Short Circuit Current	H= 100 fc, 2850 K	165	185	-	μΑ
Dark Current	V _R = 5 V	-	2	35	nA
Shunt Resistance	V _R = 10 mV	6	100	-	MΩ
Junction Capacitance	V _R =5V; f = 1 MHz	-	125	-	pF
Spectral Application Range	Spot Scan	350	-	1100	nm
Breakdown Voltage	I=10 μA	50	100	-	V
Noise Equivalent Power	V _R =0V@λ= Peak	-	5x10 ⁻¹⁴	-	W/√ _{Hz}
Response Time**	$RL = 1K\Omega, V_R = 5 V$	-	25	-	nS

^{**}Response time of 10% to 90% is specified at 660nm wavelength light.

TYPICAL PERFORMANCE

SPECTRAL RESPONSE

